

BEARING ARRANGEMENT FOR REACTION MASS IN A  
CONTROLLED ENVIRONMENT

ABSTRACT OF THE DISCLOSURE

A reaction mass apparatus for stabilizing a scanning system during lithographic processing comprises a baseframe; at least one reaction mass movably coupled to the baseframe by at least three first bearings and coupled to a stage by at least two second bearings and at least one drive; and a plurality of bellows, each bellows surrounding a corresponding first bearing, the bellows each having a first end coupled to a reaction mass and a second end coupled to the baseframe. The apparatus can comprise an enclosure, containing a controlled environment and enclosing the stage, the second bearings, the drive, and the reaction mass, wherein each bellows separates a corresponding first bearing from the controlled environment and wherein each bellows second end is coupled to the enclosure.

143119\_1